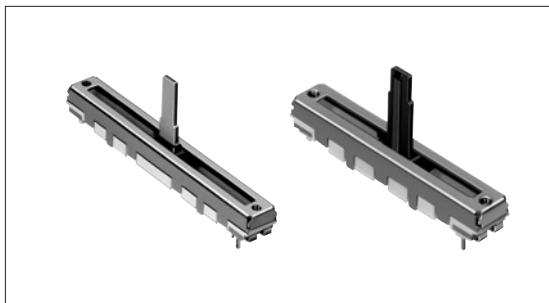


Slide Potentiometer Standard Type (Super Slide™)

RS□□1 Series



Solderable with auto dipping and available in a wide variety.



Features

- A wide range of products. (travel length : 15, 20, 30, 45, 60mm)

Applications

- For contrast control in flat panel TVs
- For various types of control in mixing consoles, mini component stereos and electronic musical instruments
- For controlling heaters, dimmers, wipers and various in-car accessories
- For various types of control in intercoms, fan heaters and electric carpets

Typical Specifications

Items	Specifications
Total resistance tolerance	±20%
Maximum operating voltage	50V AC, 10V DC
Operating force	0.3 to 2.5N
Operating life	15,000cycles
Operating temperature range	-25°C to +70°C

Recommended Products List

Insulated lever

Number of resistor elements	Travel (mm)	Lever types	Length of lever(mm)	Total resistance (kΩ)	Resistance taper	Detent	Mounting plate	Minimum packing unit (pcs.)	Products No.	Drawing No.
Single-unit	30	J-1	5	10	15A	Without	Without	100	RS301111J00P	1
					1B				RS30111AJ01R	2
		A	10	50	15A				RS301111J00R	1
					1B				RS301111J00W	
	45	C	5	10	15A	With	With	100	RS30111AJ01K	2
					1B				RS301111A01G	3
		B	10	10	1B				RS301111C01L	4
					3B				RS30111AC00V	5
Dual-unit	30	C	5	10	15A	Without	Without	100	RS45111ABA02	6
		J-1			1B				RS30112AC00J	7
					3B	With	With		RS30112AJA02	8

Rotary
Potentiometers

Slide
Potentiometers

Multi Control
Devices

Sensors

General-use

Mixer

Recommended Products List

Metal lever

Number of resistor elements	Travel (mm)	Lever types	Length of lever (mm)	Total resistance (kΩ)	Resistance taper	Detent	Mounting plate	Minimum packing unit (pcs.)	Products No.	Drawing No.	
Single-unit	15	9-1	10	10	15A	Without	With	100	RS15111A900B	9	
	30		4	20	1B		Without		RS30111A9012	10	
	45	9-1	10	15	15A		With		RS3011114A02	11	
			6				Without		RS30111A602N	12	
	60	6	15	10	15A		With		RS45111A900F	13	
			9-1				Without		RS4511119A04	14	
		6	15		1B		With		RS6011YA600M	15	
		9-1	10				Without		RS6011Y19004	16	
Dual-unit	45	9-1	20	10	15A	With	Without	100	RS6011Y1600Q	17	
			6						RS451121400A	18	
		6	15						RS45112A400G	19	
	60	4	20	20	15A		With	20	RS60112A600N	20	
		6	15						RS60112A600U		

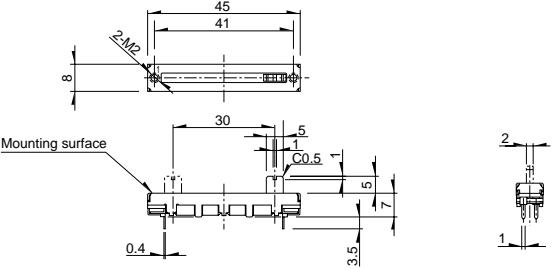
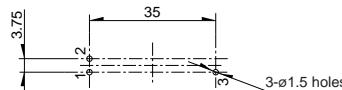
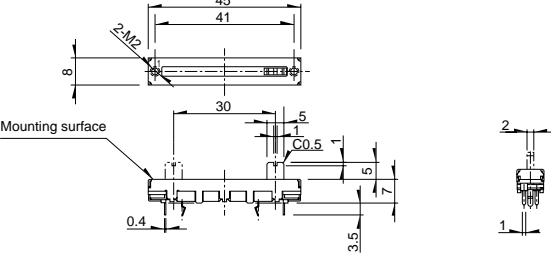
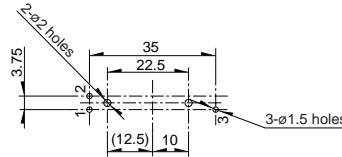
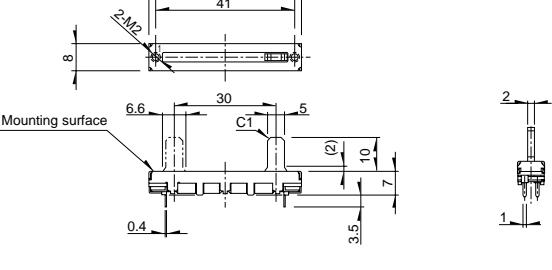
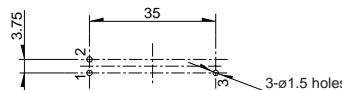
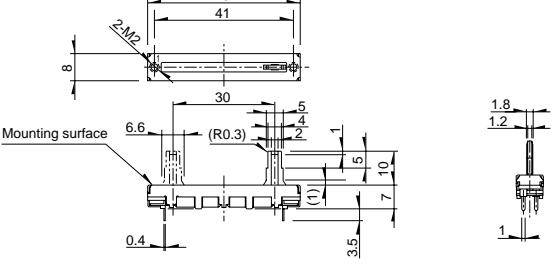
Note

Products other than those listed in above recommended products are also available. Please contact us for details.

Refer to P.110 for product varieties.
Refer to P.106 for configuration details.
Refer to P.128 for product specifications.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
1	 <p>Mounting surface</p> <p>Front view dimensions: Total width 45mm, Total height 8mm, Operating part length L1 = 30mm, Stopper part length L2 = 5mm, Total thickness 3.5mm, Distance from stopper to mounting surface 0.4mm, Distance between mounting holes 1.2mm, Total width of mounting holes 3.5mm.</p> <p>Side view dimensions: Total width 41mm, Total height 8mm, Operating part length L1 = 30mm, Stopper part length L2 = 5mm, Total thickness 3.5mm, Distance from stopper to mounting surface 0.4mm, Distance between mounting holes 1.2mm, Total width of mounting holes 3.5mm.</p> <p>PC board mounting hole dimensions: Total width 35mm, Total height 3.75mm, Distance from top edge to center of hole 1.2mm, Distance between mounting holes 3-ø1.5 holes.</p>	
2	 <p>Mounting surface</p> <p>Front view dimensions: Total width 45mm, Total height 8mm, Operating part length L1 = 30mm, Stopper part length L2 = 5mm, Total thickness 3.5mm, Distance from stopper to mounting surface 0.4mm, Distance between mounting holes 1.2mm, Total width of mounting holes 3.5mm.</p> <p>Side view dimensions: Total width 41mm, Total height 8mm, Operating part length L1 = 30mm, Stopper part length L2 = 5mm, Total thickness 3.5mm, Distance from stopper to mounting surface 0.4mm, Distance between mounting holes 1.2mm, Total width of mounting holes 3.5mm.</p> <p>PC board mounting hole dimensions: Total width 35mm, Total height 3.75mm, Distance from top edge to center of hole 1.2mm, 2 ø2 holes, (12.5) 10 mm, 3-ø1.5 holes.</p>	
3	 <p>Mounting surface</p> <p>Front view dimensions: Total width 45mm, Total height 8mm, Operating part length L1 = 30mm, Stopper part length L2 = 5mm, Total thickness 3.5mm, Distance from stopper to mounting surface 0.4mm, Distance between mounting holes 1.2mm, Total width of mounting holes 3.5mm.</p> <p>Side view dimensions: Total width 41mm, Total height 8mm, Operating part length L1 = 30mm, Stopper part length L2 = 5mm, Total thickness 3.5mm, Distance from stopper to mounting surface 0.4mm, Distance between mounting holes 1.2mm, Total width of mounting holes 3.5mm.</p> <p>PC board mounting hole dimensions: Total width 35mm, Total height 3.75mm, Distance from top edge to center of hole 1.2mm, 3-ø1.5 holes.</p>	
4	 <p>Mounting surface</p> <p>Front view dimensions: Total width 45mm, Total height 8mm, Operating part length L1 = 30mm, Stopper part length L2 = 5mm, Total thickness 3.5mm, Distance from stopper to mounting surface 0.4mm, Distance between mounting holes 1.2mm, Total width of mounting holes 3.5mm.</p> <p>Side view dimensions: Total width 41mm, Total height 8mm, Operating part length L1 = 30mm, Stopper part length L2 = 5mm, Total thickness 3.5mm, Distance from stopper to mounting surface 0.4mm, Distance between mounting holes 1.2mm, Total width of mounting holes 3.5mm.</p> <p>PC board mounting hole dimensions: Total width 35mm, Total height 3.75mm, Distance from top edge to center of hole 1.2mm, 1.8 1.2 mm, 3-ø1.5 holes.</p>	

Rotary
Potentiometers

Slide
Potentiometers

Multi Control
Devices

Sensors

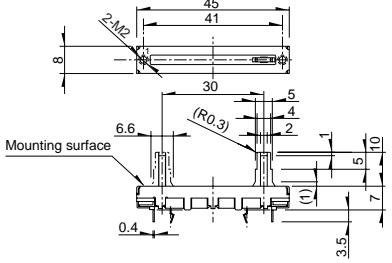
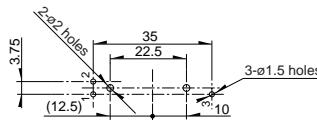
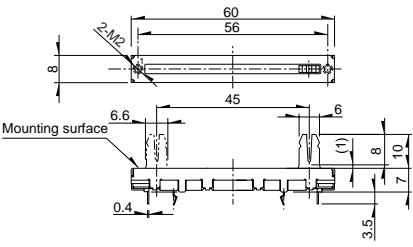
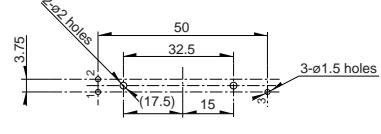
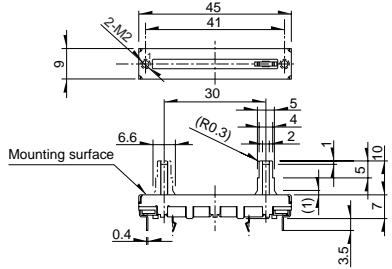
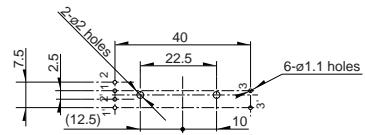
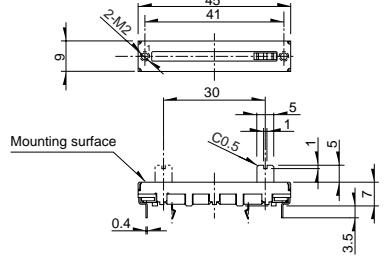
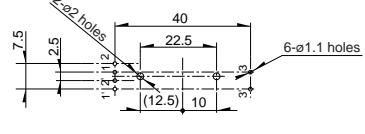
General-use

Mixer

The length of the operating part (L₁) can be customized. Refer to P.110 for details.

Unit:mm

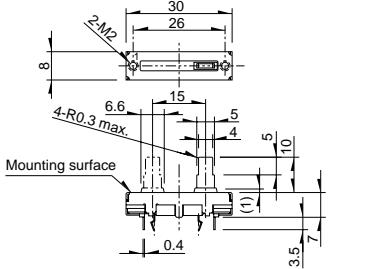
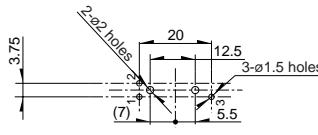
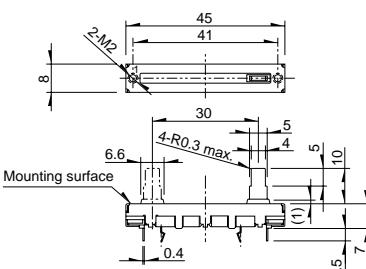
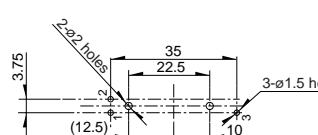
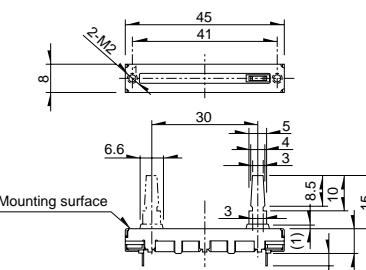
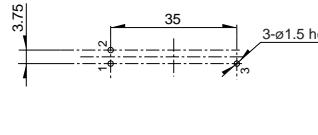
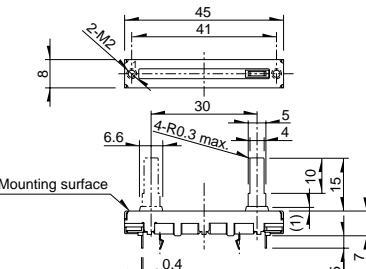
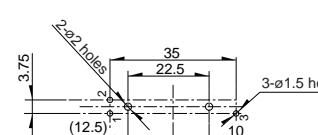
Dimensions

No.	Style	PC board mounting hole dimensions
5	 <p>Mounting surface</p>	
6	 <p>Mounting surface</p>	
7	 <p>Mounting surface</p>	
8	 <p>Mounting surface</p>	

The length of the operating part (L_1) can be customized. Refer to P.110 for details.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
9	 <p>Mounting surface</p>	
10	 <p>Mounting surface</p>	
11	 <p>Mounting surface</p>	
12	 <p>Mounting surface</p>	

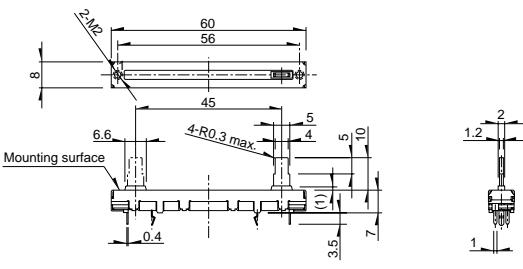
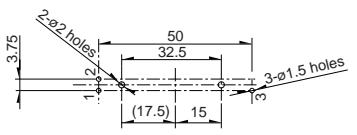
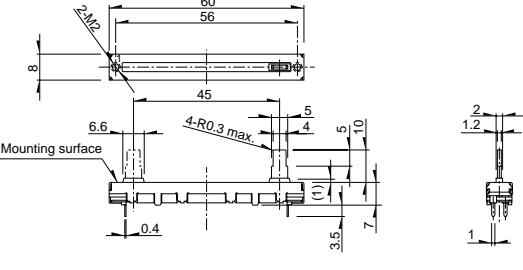
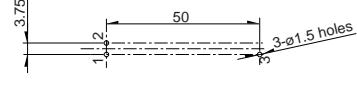
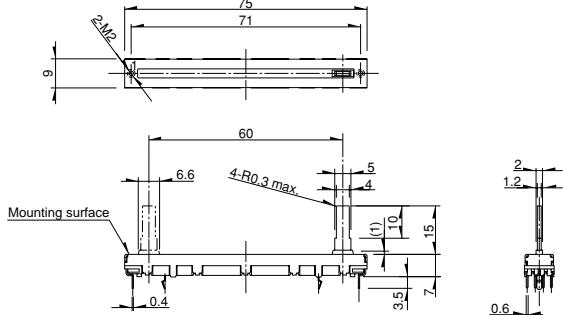
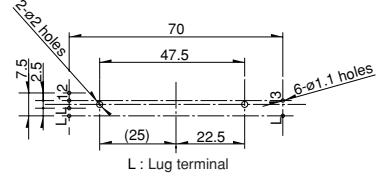
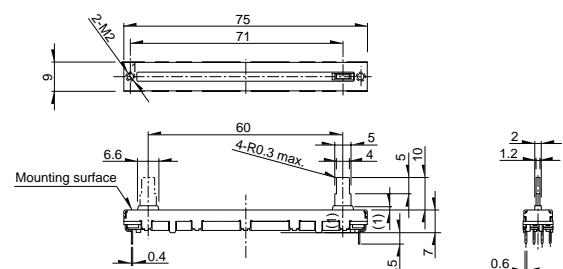
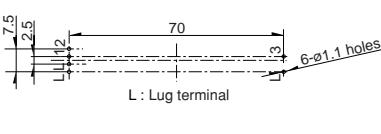
The length of the operating part (L_1) can be customized. Refer to P.110 for details.

Dimensions

Unit:mm

Rotary
Potentiometers
**Slide
Potentiometers**
Multi Control
Devices
Sensors

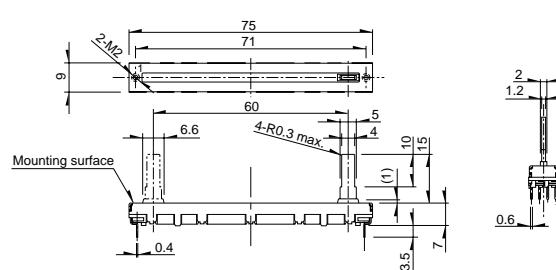
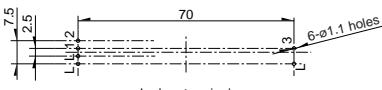
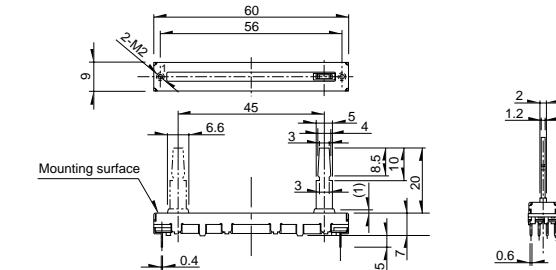
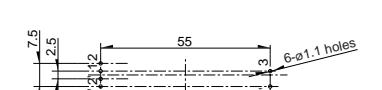
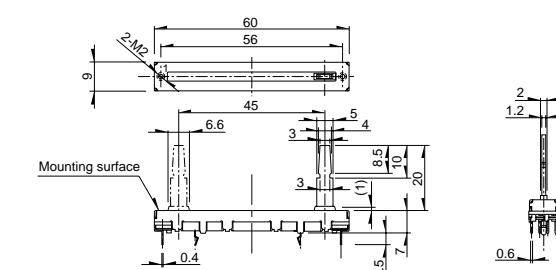
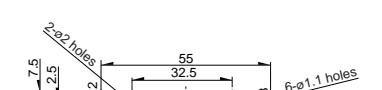
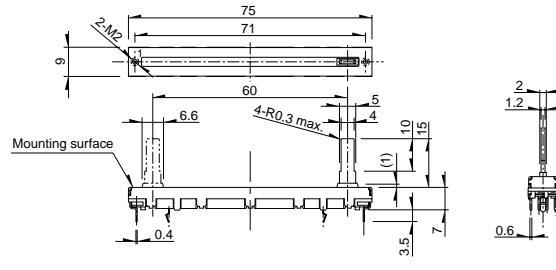
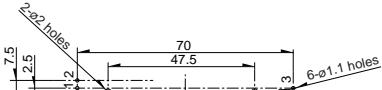
General-use
Mixer

No.	Style	PC board mounting hole dimensions
13	 <p>Mounting surface</p>	 <p>2 ø2 holes, 50, 32.5, (17.5), 15, 3 ø1.5 holes</p>
14	 <p>Mounting surface</p>	 <p>2 ø2 holes, 50, 3 ø1.5 holes</p>
15	 <p>Mounting surface</p>	 <p>2 ø2 holes, 70, 47.5, (25), 22.5, 6 ø1.1 holes L : Lug terminal</p>
16	 <p>Mounting surface</p>	 <p>2 ø2 holes, 70, 3, 6 ø1.1 holes L : Lug terminal</p>

The length of the operating part (L_1) can be customized. Refer to P.110 for details.

Dimensions

Unit:mm

No.	Style	PC board mounting hole dimensions
17	 <p>Mounting surface</p> <p>Dimensions (mm): Front View - Total length 75, Operating part 60, Total width 9, Lug terminal height 2.5, Lug terminal thickness 1.2, Lug terminal width 0.6. Side View - Total width 9, Lug terminal height 2.5, Lug terminal thickness 1.2, Lug terminal width 0.6. PC Board - Total width 70, Total height 3.5, Total thickness 7, Number of holes 6-φ1.1 holes.</p>	 <p>L : Lug terminal</p>
18	 <p>Mounting surface</p> <p>Dimensions (mm): Front View - Total length 60, Operating part 56, Total width 9, Lug terminal height 2.5, Lug terminal thickness 1.2, Lug terminal width 0.6. Side View - Total width 9, Lug terminal height 2.5, Lug terminal thickness 1.2, Lug terminal width 0.6. PC Board - Total width 55, Total height 3.5, Total thickness 7, Number of holes 6-φ1.1 holes.</p>	
19	 <p>Mounting surface</p> <p>Dimensions (mm): Front View - Total length 60, Operating part 56, Total width 9, Lug terminal height 2.5, Lug terminal thickness 1.2, Lug terminal width 0.6. Side View - Total width 9, Lug terminal height 2.5, Lug terminal thickness 1.2, Lug terminal width 0.6. PC Board - Total width 55, Total height 3.5, Total thickness 7, Number of holes 6-φ1.1 holes.</p>	
20	 <p>Mounting surface</p> <p>Dimensions (mm): Front View - Total length 75, Operating part 60, Total width 9, Lug terminal height 2.5, Lug terminal thickness 1.2, Lug terminal width 0.6. Side View - Total width 9, Lug terminal height 2.5, Lug terminal thickness 1.2, Lug terminal width 0.6. PC Board - Total width 70, Total height 3.5, Total thickness 7, Number of holes 6-φ1.1 holes.</p>	

Rotary
Potentiometers

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The length of the operating part (L_1) can be customized. Refer to P.110 for details.

Product Varieties

In addition to the recommended products, the following specifications can also be accommodated.

Travel Distance Variety

Travel (mm)	15	20	30	45	60
-------------	----	----	----	----	----

Total Resistance Variety

Total resistance (kΩ)	10	20	50	100	200
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Resistance Taper

Resistance taper	1B	4B	10A	15A
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Note

DC (10VDC) is also available. (Tapped types are not available)

Lever Types

Metal lever		Insulated lever	
Code	Dimensions	Code	Dimensions
9-2		J-1	
9-1		A	
6		C	
4			

Corresponding Specifications

Resistance taper	3B, 15C	Insulated lever configuration	
Dust cover	Available	B	D (Marker colour tone: white, red)
Tap	Available (Only the center-positioned)		

Terminal Layout/Circuit Diagram

Single-unit	Dual-unit (with lug terminal)	Dual-unit
 	 <p>L : Lug terminal</p>	

Note

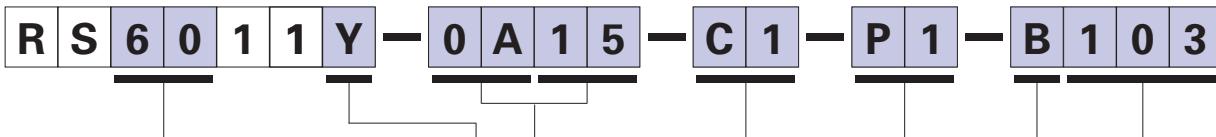
marked are specifications recommended by ALPS.

Refer to P.111 for resistance taper.

Orders Other Than Recommended Products

When ordering product varieties that are not listed in the Recommended Product list, please specify by referring to the below example.

Sample Part Number



Specify the travel distance from the below codes.

Travel (mm)	Code	Travel (mm)	Code
15	15	45	45
20	20	60	60
30	30		

Number of resistor elements

Single	1 (Enter "Y" for 60 mm travel)
Dual	2

Lever type/Length of operation unit (mm)

Insulated lever

Code	Configuration	Length
J1	J-1	5
0A	A	10
		15
0C	C	10
		15
0B	B	10
		15

Metal lever

Code	Configuration	Length
91	9-1	10
92	9-2	5
04	4	15
		20
06	6	15
		20

Insulated lever (Marker type)

Code	Style	Color	Length
DR	D	Red	10
DW		White	15

Length of operation unit

If the length is less than 10 mm,
add a "0" before the number.
(e.g., 5 mm length="05")

Detent

Code	Detent
C0	Without
C1	Center

Mounting plate

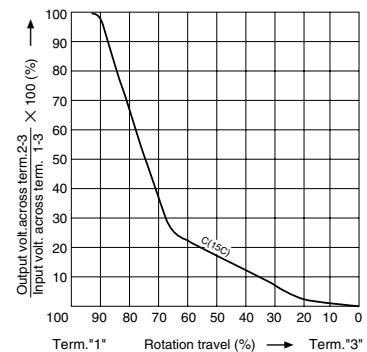
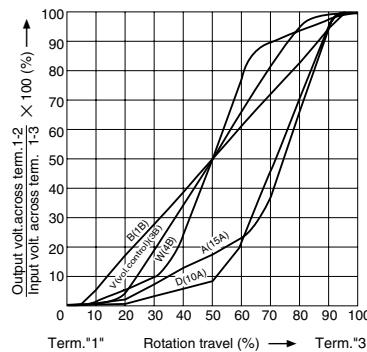
Code	Mounting plate
P0	Without
P1	With

Resistance taper

Code	Resistance taper
A	15A
B	1B
D	10A
W	4B
V	3B
C	15C

B:For tone & general

V:For vol.



Note

marked are specifications recommended by ALPS.

Rotary
Potentiometers

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General-use

Mixer

Products Specifications

Type	Super Slide™	Slim Slide™ (Slim4)	Slim Slide™ (Low-Profile)
Model	RS□□11□	RS□□H1□	RS□□M11

Mechanical Performance

Operating temperature range	−25°C to +70°C		−10°C to +70°C
Operating force	0.3 to 2.5N	0.2 to 1.1N	0.15 to 0.8N
Stopper strength	50N	30N	30N
Lever push-pull strength		30N	20N
Lever wobble (mm) ※Both sides	$\frac{2(2 \times L)}{20}$		1.6 max.
Detent slip-out force	Operating force+(0.2 to 2N)	Operating force+(0.05 to 0.8N)	With click feeling
Lever deviation (mm) ※One sides	0.5 max.		
Solder heat resistance	Manual soldering	350°C max. 3s max.	
	Dip soldering	260°C max. 5s max.	260°C max. 5s max. Surface mount terminal :not available

Electrical Performance

Total resistance (kΩ)	10, 20, 50, 100, 200	5, 10, 20, 50, 100 200, 250
Total resistance tolerance	±20%	
Resistance taper	15A, 1B, 4B, 10A, 3B, 15C	15A, 1B, 3B

Endurance

Sliding operation life	15,000cycles	10,000cycles
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Environmental Test

Cold	−30±2°C for 96h	
Dry heat	70±2°C for 96h	70±2°C for 240h
Damp heat	40±2°C, 90 to 95%RH for 96h	

Notes

1. "L" in the "Lever Wobble" of above table indicate the measuring point.
2. Products other than those listed in the above list are also available. Please contact us for details.
3. The resistance taper specifications marked with () are individually defined.